

# REPORT DOCUMENTATION PAGE

AFRL-SR-AR-TR-05-

data needed, and completing and reviewing this collection of information. Send comments regarding this burden estimate or any other this burden to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0 4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failin valid OMB control number. PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS.

0117

te  
ig  
ntly

<b>1. REPORT DATE (DD-MM-YYYY)</b> 15-03-2005		<b>2. REPORT TYPE</b> Final Report		<b>3. DATES COVERED (From - To)</b> 2002-2004	
<b>4. TITLE AND SUBTITLE</b> Final Report HBCU Undergraduate Research Fellowship				<b>5a. CONTRACT NUMBER</b> F49620-02-1-0429	
				<b>5b. GRANT NUMBER</b>	
				<b>5c. PROGRAM ELEMENT NUMBER</b>	
<b>6. AUTHOR(S)</b> Dr. Geoffrey L. Collier				<b>5d. PROJECT NUMBER</b>	
				<b>5e. TASK NUMBER</b>	
				<b>5f. WORK UNIT NUMBER</b>	
<b>7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)</b> South Carolina State UIniversity				<b>8. PERFORMING ORGANIZATION REPORT NUMBER</b>	
<b>9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)</b> AFOSR 4015 Wilson Blvd. Room 713 Arlington, VA 22203-1954  PIE				<b>10. SPONSOR/MONITOR'S ACRONYM(S)</b>	
				<b>11. SPONSOR/MONITOR'S REPORT NUMBER(S)</b>	
<b>12. DISTRIBUTION / AVAILABILITY STATEMENT</b> Approved for public release; distribution is unlimited.					
<b>13. SUPPLEMENTARY NOTES</b>					
<b>14. ABSTRACT</b> During the grant/fellowship period of 2002-2004, Corey Ellison worked directly under PI Geoffrey Collier in a number of areas related to his research interests. The first of these areas involved work correlating the individual differences in the ability to identify simple pitch patterns with reading scores. The reading scores were created using a test of homophone identification, which has been shown to predict general reading capacity. Corey was involved in the running of this experiment, which involved administering the reading tests and the computerized pitch pattern test.					
<b>15. SUBJECT TERMS</b>					
<b>16. SECURITY CLASSIFICATION OF:</b> Uncl.			<b>17. LIMITATION OF ABSTRACT</b>  Uncl.	<b>18. NUMBER OF PAGES</b>  3	<b>19a. NAME OF RESPONSIBLE PERSON</b> Geoffrey L. Collier
<b>a. REPORT</b> Uncl	<b>b. ABSTRACT</b> Uncl	<b>c. THIS PAGE</b>			<b>19b. TELEPHONE NUMBER (include area code)</b> 803-732-2019

**Final report HBCU undergraduate research fellowship**

Dr. Geoffrey L. Collier, PI  
Department of psychology  
South Carolina State University  
803 732 2019 (home)  
brainstorm@sc.rr.com  
446380 (internal contract number)

Koto White, PhD  
Chief, External Programs Division  
Air Force Office of Scientific Research  
4015 Wilson Blvd.  
Arlington, VA 22203-1954  
Phone: 703-696-7319; Fax: 703-696-7364  
koto.white@afosr.af.mil.

**DISTRIBUTION STATEMENT A**  
Approved for Public Release  
Distribution Unlimited

**1. Final technical report.**

During the grant/fellowship period of 2002-2004, Corey Ellison worked directly under my supervision in a number of areas related to my research interests. The first of these areas involved work correlating the individual differences in the ability to identify simple pitch patterns with reading scores. The reading scores were created using a test of homophone identification, which has been shown to predict general reading capacity. Corey was involved in the running of this experiment, which involved administering the reading tests and the computerized pitch pattern test.

Corey was able to present at two different student conferences; the Carolinas psychology conference ([http://www.ncsu.edu/psychology/car\\_conf/](http://www.ncsu.edu/psychology/car_conf/)) and the Georgia undergraduate research in psychology conference (<http://www.kennesaw.edu/gurp/>). Although he received my assistance in developing the talks, I was unable to accompany him so that he had to give the talks without assistance or support (no other student was able to go, either). Despite "flying solo", he performed admirably, and people express an interest in the work.

During the summer of 2003 I was able to get Corey to be mentored by Leonard Katz, professor of psychology at the University of Connecticut, Storrs. Through this connection Corey was able to spend a month as a guest researcher at the Haskins Speech

20050325 136

lab, New Haven, Connecticut. They were happy to have him "on board" because his fellowship was able to pay his expenses. There we worked on a project that Haskins was doing in collaboration with Yale University on speech and functional magnetic resonance imaging., where he learned the basics of interpreting an FMRI image.

During the academic year 2003-2004, Corey worked with me on a different project, involving timing and sequencing in motor skills. Administering this project was complex, but Corey was able to do the work without difficulty.

Corey graduated in May 2004, but decided to take a year off before applying to graduate school. He is currently applying to Ph.D. programs in psychology. Dr. Katz has urged him to apply to the University of Connecticut, and I would be pleased to see Corey there, although he is also applying to other prestigious programs (i.e. Harvard). Once Corey has finalized his graduate school plans, I will update your office with this information.

## 2. Final Financial report

Below is a financial report, as printed out by our office of grants management. The total budgeted amount was \$48,538, whereas the total expenditures were substantially less, at \$27,716, leaving \$20,822 unspent. The fellowship came in under budget primarily because I did not use any summer salary, as I was being funded from other sources.

019	SL Account Summary			DOD-UNDERGRAD RESEAR
	South Carolina State University			Fiscal
Year:	05			
Screen:	019 Acct: 446380			Date: 02-14-05 Time:
15:01:46				
	Department: 00575		Resp Person: COLLIER,DR.G. 6-8683	
	Map Code: 46380		Flags: Del Frz Rvw Drp Sup ABR	
obj	description	budget	actual	encumbr available
code				ance
	420 Fed grant	48,538-	27,715.85-	\$0 20,822.15-

(revenues)				
tota revenues	48,538-	27,715.85-	\$0	20,822.15-
1877 Other personal	\$10,778	\$0	\$0	\$10,778
2100 Employee contribution	\$2,156	\$0	\$0	\$2,156
Total salary & benefits	\$12,934	\$0	\$0	\$12,934
4232 Non-state employee	\$2,000	\$0	\$0	\$2,000
9701 stipends	\$19,776	\$19,492	\$0	\$284
9801 scholarships	\$8,224	\$8,224	\$0	\$0
9955 indirect costs	\$5,604	\$0	\$0	\$5,604
total expenditures	\$48,538	\$27,716	\$0	\$20,822
Account total	\$0	\$0	\$0	\$0

### 3. Final Invention and patent report.

The final patent report is attached. There were no patents or inventions. Please note that the contract number is missing, as I could not find this number in my possession.